County Reckland Twp. 19 N Rge. 397

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
2	Brawn Heal B	DW4	286401	
2	Tora & Emil	517h 11 Log	260423	
2	Wick Lland	MW4	319442	
3	Illmen Dallas	nno	315477	
1	youngquest Deen E	12m4	286234	
17	Just Ray	12/2	305432	
0	War and A. B.	2744	286235	
10	Kally & meline	57 mel Lon	1	
12	Balduke Frenk		374694	
12	Balduke Frank	VM4	286212	
13	Bolducke Bran	27/2	327067	
14	Balducke Frank	2W4	286211	
18	Rednan Karrey &	UW3	286011	
28	Inest Ray	424	286463	
34	Varian lane	57Well La	274696	
-				
	Numer (1) Numer			
				

~ (
G.	Approved Stock Form-State Publishing Co., Heleng, Montana-42234	1
File	No. T 19 10 R 57E	
DUE	LICATE County Kich AND	
	STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER JAN 10 1964	
	Declaration of Vested Groundwater Rights : 2 210 213 22 22	
	(Under Chapter 237, Montana Session Laws, 1961)	
1	Hugh BBROWN, of Sking RTe - Sidney, (Town) (Address) ON TANA	
h	ounty of State of Sta	
	2. The beneficial use on which the claim is based Fack WATER # Agains a Tural Purpos es 3. Date or approximate date of aduliest hereficial base and how continue.	
w -	3. Date or approximate date of serliest beneficial use; and how continuous the use has been 4/2CM 95.8 4 CONTINUOUS	
	4. The amount of groundwater@laimed (in miner's inches or gallons per minute).	
Ĺ	5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof	
	14 Sec. 2 1/9 PS 9 E	
and_	place of use, if possible. Each is quare represents 10 acres. 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.	
7.	drawal of groundwater 1958 Communication States + Organisa	
8.	The depth of water table 360	
9.	So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.	
	by electrical Motors.	
••	4500004100	
	The estimated amount of groundwater withdrawn each year 45000 Gallons	
u.	The log of formations encountered in the drilling of each well if available.	
	Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.	
	2/./01	
	Signature of Owner Hulgh Black	-
	Date	

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

10 0 10 0 X + State Contract The State of t 400 1416

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T 19N	R 5	95		
County A	4 .	1	 	

MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana

DEC	EI	VE	n
M HOA	2.8	1958	

	WAT	ER WELL LOG	\$1	TATE ENGINEER
	Owner Emily		Address L. L	neg mont
	Driller Ind made	4	Address	SE librey me
	Date Started Anny 21	- 51	Date Completed	26. MAY, 59
	Location: Sec. 2 T	19 R 59 9	(sec	
Type of well	(Dug, driven, bored, or drilled)	Equipment used	(Churn drill,	rotary, other)
Water use: Domestic		Stock		
	ft. toft.	туре О. О.	size 6 in	
	.ft. to			and the second of the second of
	.ft. to			
Type of screen or perfor	ations Cut wil	to Cutting to	ısh	4 1 1 1 1 1 1 1 1 1 1
	on-flowing well:			
Shut-in pressure, for flo	owing well:	lb./sq. in. on:	(da	(e)
		4		
	Bailing			
	king, cementing, packers, t			•••••••••••••••••••••••••••••••••••••••
Centaras. (Graver pac	sitis, beliefitting, pacacia, t	ype or anus-on, depui		*************
	***************************************	***************************************	***************************************	***************************************
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
£ ~		(over)		***************************************

Log of Well

Dont	h foot a	Log of Well
From	h, feet To	Description of Material Drilled
PIGIL		
0	32	of ello clay
22	43	Coal.
43	163	Blue Clay
163	169	Sand and Little water 1 & sal ger minute
169	174	Coal.
74	205	Sand with the same of the same
05	290	Blue Clay
90	305	Land + reter 20 get per mente
	j. 2	
	:	
	:	
		20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		* 1 35 t
		in East w
		11/4
		10 1/2 2
	,	1 2

Indicate the character, color, thickness of strata such as soil, clay, sand,

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE JEELS 1977 MONTANA WATER RESOURCES BOARD

N

OTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL Developed after January 1, 1962	depth at whi	ch water is found and ich water rises in well.
ler Chapter 237 Montana Session Laws, 1961, as amended)	Top of Ground	(Elev. above sea level) 2360

									(Eler, abore sea term) — garage	
by the ow	to be prepared to be	County	Clerk ar	nd Recorder	in the cou	nty in	From (Fest)	To (Feet)		
Please ans	well is loca wer all quest be returned.	tions. If					_0	35 50	top soil and yellow clay gray clay	
								20	ALSA CTSA	
Owner	Loyd Wick	•••••		For Adm	inistrator's L	Jse	_50	53_	black clay	
Address S	idney, Mor	nt.		File Qune	31944; 33,19 41980	2	_53_	.70	gray_clay	
			**********		4.19 80	2	_70	75	_coal	_ <u>`</u> ,
Date well	started6-1	<u>-1971</u>		GW 1			-7 5	102	gray shale	
com	npleted 6-8	3-1971					102	136	fine sandstone	
Type of w	ell <u>drille</u>	ed.	(7)	ug, driven, boro	d or drilled)	•••••	_1.36_	223_	-gray shale	
Equipment	used rote	ry.		Churn drill, rota	ry or other)	••••••	223	226	-coal	
Water Use	: Domestic	□ Mυ	nicipal [] Stock [on 🗆	-226	252	gray shele	
ind	lustrial 🗌	Drainage	□ o	ther []*	Garden/Lav	vn 🗀	252	154	-rock	
a 1 1 1 1 1 1							-254-	-270	-Liva-gray-chalo	
USE: If us state	sed for irrig number of a	ation, ind scres and	dustrial, location	drainage o or other da	r other. Ex ata (i.e. Lot,	oplain, Block	270_	300_	fine gray sandstone	
and A	Addition),					*****				
ECTIMANTER	ANNUAL V	WITH DD AX	3	10.00	Odeller	nd.				
				7	7					
Size of Drilled Hole	Size and Weight of Caulag	From (Feet)	To (Feet)		PERFORATION	8				
12"	4" I.D.	0	300	Kind Size	From (Feet)	To (Feet)				
	10# pee	0	300	torch						
	It.	44.]	slots	1					·
	1			Ţtu.	275	300				1,51
	N		C \-)	<i>t.</i> +				
					vel 270 . r level					
			at .	· -	gallons	oer minute,				
	j				minutes afte	er pumping				
w		× ,	_ ~	jan. easured fro	m ground le	lave				
			We	II develope	d by bal	ler				
			for	0	hours.					
	1		Pov	ver	Pump	HP				
			Ren	narks: (Gra	vel packing,	vell				
4.3	1). 4		10	eamed to	of shutoff) 12" and g	ravel				
-16 E 1/4	1/2 1/4 Sec	2	. P.	acked arc	rund 4" ce	sing and				
T. 19	N R	>9 E	C1	ay filled	to top					
	75	M	l							
	LOCATION ALL SQUARE				JSE, IF POS	SIBLE.				
		Fin	وأريدود	1/2	وحرم					
Driller's Sig	gnature 🛵	117	17	1- 5 N	\mathcal{H}	·········	 			
Driller's Ad	ddrass —	Juil.	nev	1/1/	Cont.					
ار د اعبادات ار	7	an agriga		···· · /*····						_
12	100 T	49	1	LICENS	E NO. 92			X	Show exact depth of bottom	

County of Richland, Ses. 3/9442

County of Richland, Ses. 3/9442

Filed this 93 day of

A. D. 19 7/
at 4:19 o'clock, J. M.

County Recorder

Gune Paladichuk

Bennty

Filed 82.00 Fee

County Richand 3 DRILLER'S LOG

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

MONTANA WATER RESOURCES BOARD

JUN 1970

India

ness

CE OF COMPLETION OF GROUNDWATER

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

LICENSE NO. 177

indicat	е	me cn	aracter,	COIC	T, TRICK-
ness o	f st	rate su	ch as s	oil, cl	ay, sand
gravel	, si	nale, s	andston	ie, et	c. Show
depth	at	which	water	is fo	und and
height	to	which	water	rises	in well.
				٠	

Show exact depth of bottom

(Under Chapter 237 Montana Sessio	**************************************	Top of	Ground	(Elev. above sea level)
This form to be prepared by driller, by the owner with the County Clerk which the well is located, last copy to	and Recorder in the county in	Prem (Feet)	To (Feet)	
Please answer all questions. If not app			38	
form may be returned.	sicable, so state, otherwise the	0_	30	hrown olyy
		3.8	67	- constant
Owner Dallag Ullman				
	TO Administrators use	67_	103	grey sandy shelo
Address Fairview, Nost	File June 29, 1970			
	$\mathbf{I} = \mathbf{U}$	703	776	grey chalo
***************************************	11:50 AM	716	705	
Data wall stands of the same	10475		27	- Sant Territor Cont. Sector
Date well started 10, June 1970	GW £1,52	725	132	
completed 3. June 7970	The second secon	-		
138 ATTEM 1240		132	159	groy-black shafe
Type of well				
		120	316	Sach spe, A same
Equipment used	7Cmh 2011 rosspr or other)	216	205	
		-	7	308
Water Use: Domestic Municipal	Stock Irrigation	225	232	
Industrial Drainage	Other []* Garden/Lawn []			
	ourden/takin [232	260	grey sand weter
*Describe				بدنت ندر سرای برشید برای در برای
USE: If used for irrigation, industrial,	drainage or other. Explain	1		. 100 - 200 -
state number of acres and locatio	n or other data (i.e. Lot, Block			
and Addition)		-		
and reality	and the second s			
			_	
ESTIMATED ANNUAL WITHDRAWAL	180,000 gals			
ESTIMATED ANNUAL WITHDRAWAL				
	PERFORATIONS			
Size of Size and Prom To	PERFORATIONS			
	PERFORATIONS Kind From To			
Size of Size and Prom To Bellied Weight (Feet) (Feet)	PERFORATIONS			
Size of Drilled Weight (Feet) To (Feet)	PERFORATIONS Kind From To (Feet) (Feet)			
Size of Drilled Weight (Feet) To (Feet)	PERFORATIONS Kind From To (Feet) (Feet)			
Size of Drilled Weight (Feet) To (Feet)	PERFORATIONS Kind From To (Feet) (Feet)			
Size of Drilled Weight (Feet) To (Feet)	PERFORATIONS Kind From To (Feet) (Feet)			
Size of Defined Weight (Feet) To (Feet) Hole Hole To (Feet) To (Fe	PERFORATIONS Kind From To (Feet) (Feet)			
Size of Drilled Weight (Feet) To (Feet) Hole Hole To (Feet) To (Fe	PERFORATIONS Kind From To Size (Feet)			
Size of Drilled Weight (Feet) (Feet) Fig. 1 19 10 0 255	PERFORATIONS Kind From To (Feet) NONe atic water level 200			
Size of Drilled Weight (Feet) (Feet) Fig. 19 19 19 19 19 19 19 19 19 19 19 19 19	PERFORATIONS Kind From To (Feet) NONe Town (Feet)			
Size of Defined Weight (Feet) To (Feet) Roll Roll Roll Roll Roll Roll Roll Rol	PERFORATIONS Kind From To (Feet) NONe atic water level 200			
Size of Defined Weight (Feet) To (Feet) Roll Rich (Feet) N Sire and Rich Rich (Feet) N Sire and Rich Rich Rich Rich Rich Rich Rich Rich	PERFORATIONS Kind From To (Feet) TONe atic water level 200 ft.* mpig water level 230 ft.* gallons per minute, easured 30 minutes after pumping egan.			
Size of Drilled Weight (Feet) To (Feet) Hold Hold To (Feet) N Signature of Contract To (Feet) Signature of Contract To (Feet)	PERFORATIONS Kind From To To (Feet) FONe atic water level 200 ft.* umping water level 230 ft.* gallons per minute, gallons after pumping pagn. Measured 30 minutes after pumping pagn.			
Size of Drilled Weight (Feet) To (Feet) Fig. 14 44 a d 77 g 0 255	PERFORATIONS Kind From To To (Feet) NONe atic water level 200 ft.* umping water level 230 ft.* gellons per minute, assured 30 minutes after pumping eagen. Weasured from ground level, and developed by baller			
Size of Drilled Weight (Feet) To (Feet) Hole of Coding (Feet) 255 N Si Pi	PERFORATIONS Kind From To To (Feet) ITONS atic water level 200 ft.* umping water level 230 ft.* gallons per minute, easured 30 minutes after pumping egan. Weasured from ground level, lell developed by ballons.			
Size of British Weight (Feet) To (Feet) Weight (Feet) To (Feet) To (Feet) N N Size and Prom (Feet) To (Feet) To (Feet) To (Feet) To (Feet)	PERFORATIONS Kind From To To (Feet) ITONO atic water level 200 ft.* Jumping water level 230 ft.* gallons per minute, easured 30 minutes after pumping agan. Wessured from ground level, fell developed by baller or hours, ower 9190 Pump 314 HP			
Size of Defined Weight (Feet) To (Feet) Hole of Contag (Feet) 71 1 1 1 1 1 0 2 255	PERFORATIONS Kind From To To (Feet) ITONS atic water level 200 ft.* umping water level 230 ft.* gallons per minute, easured 30 minutes after pumping egan. Weasured from ground level, lell developed by ballons.			
Size of Defined Weight (Feet) To (Feet) Hole of Contag (Feet) (Feet) 71 1 1 1 1 1 0 2 255	perforations Kind From To To (Feet) NONe From To To (Feet) NONe From To To (Feet) I ONE From To To (Feet) Authorized To To (Feet) Sumpling water level 230 ft.* Gallons per minute, lell developed by ballon to the cours, were 9.180. Pump 3.74. HP emarks: (Gravel packing, cementing, ackers, type of shutoff)			
Size of British Weight (Feet) To (Feet) Fig. 11 4 1 a C 7 g 2 5 5	PERFORATIONS Kind From To To (Feet) NOTE atic water level 200 ft.* Impige water level 230 ft.* gellons per minute, gellons per gellons, gellons per gel			
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Size of British Weight of Coming House of Comi	perforations Kind From To To (Feet) FONe atic water level 200 ft.* Impig water level 230 ft.* gallons per minute, gallons after pumping agan. Measured 30 minutes after pumping agan. Measured from ground level, rell developed by baller or hours. Sower 9190 Pump 314 HP emarks: (Gravel packing, cementing, ackers, type of shutoft) PLACE OF USE, IF POSSIBLE, ACRES.			
Size of British Weight Weight (Feet)	perforations Kind From To To (Feet) NONe From (Feet) If One Prom (Fee			
Size of British Weight of Coming House of Comi	perforations Kind From To To (Feet) NONe From (Feet) If One Prom (Fee			

STATE OF MONTANA, County of Richland,

County Recorder

County Recorder

County Recorder

County Recorder

iw .		Approved Stock Form-S	tate Publishing Co., Helena, Montana 42234
File No	••••		T 19N R 59E
OUPLICATE			County RICHLAND
	ADMINISTR.	TATE OF MONTANA ATOR OF GROUNDWATER E OF STATE ENGINEER	JAN 1 0 1964
D	eclaration of (Under Chapte	Vested Groundwa er 237, Montana Session Laws	- 1001
1. DEAN E. (Name County of BICH	VOUNGBUIS of Appropriator)	, of SKAAR (Address State of MOA	BT. SIDNE Y (Town) V ANA t prior to January 1, 1962, as follows:
have appropriated gro	undwater according t		
	2.	The beneficial use on which t	the claim is based.
		Date or approximate date of ous the use has been	earliest beneficial use; and how continu- PROY - 1930
W	4.	. The amount of groundwate	r claimed (in miner's inches or gallons
VE 14 Sec 5 T/9		If used for ineigation, give to which water has been a	the acreage and description of the lands applied and name of the owner thereof
Indicate point of appr and place of use, if possil small square represents	ole. Each	. The means of withdrawing a	such water from the ground and the loca- nans of withdrawal.
drawal of groundwa	ater APPROX	(, /930	e well, wells, or other works for with-
8 The depth of water	table 100		
9. So far as it may b	e available, the type,	size and depth of each well	or the general specifications of any other
10. The estimated amon	nt of groundwater wit	thdrawn each year 509	,000 GAL.
11. The log of formation	is encountered in the	drilling of each well if availa	ble NOT AVAILABLE
			ing out the policy of this act, including
	•	Signature of Own	Date 12/28/1963
Mines agains to be file 3 b	or the armon with the C		Date / 1/18/1703

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located. Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Trigon to necession

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator. 29533 STATE OF MONTANA, Section of Richland County of Richland County of Richland County House Section of County House Section of Section

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3 3

ile No	ONTAMA WATER RESOURCES BOAR	T 19 N R 1/E
UPLICATE	7	County the Aland
roc	JUN 12 1968 ST.	ATE OF MONTANA
TO	ADMINISTRAT	FOR OF GROUNDWATER CODE
Top of Ground	OFFICE	OF STATE ENGINEER
Elev. above sea lev. عبر	Notice of Con	npletion of Groundwater
-orela tegeral c	**** MUDICUITATI	ion by Means of Well
10 11 depto 4.	petition clay DEVELOPE	D AFTER JANUARY 1, 1962
10 25 gray El	(Under Chapter	237, Montana Session Laws, 1961)
25 27 Cope	\mathcal{L}	1+ 11 1h 1
3 1 11 Jung en	Owner.	Address Andrey 11407
71 74 Noch	Driller	Lacy Chadress Money Mon
	de the layerwood	
98 101 coal	Date of Notice of appropriation	
10/ 125 arouseds	Date well started Titles	21/9/ Date completed May 27 19
125 128 coal	Type of well	Lauipment used Arotary
128 300 gray who	(Dug, driven, bored or	
	Water use: Domestic	
	· Jane	
362 369 rock	met with in drilling, such as	he character and thickness of the different str soil, clay, shale, gravel, rock or sand, etc. Si
7/4 700 4	A strate and height to which the	intered, thickness and character of water-bear water rises in the well.
192 20 Courelle	and day well T	
10 17 rock	Drilled Weight (From To PERFORATIONS Feet) (Feet)
271 455 gray -ch	well with any the	Kind From To
23 4981 brown, x1	rale 32" to lowier	2 33
478 502 noch	14900 C	1110 1990 1072 1111
502 510 gray an	M. 2	classiff.
210 216 AFCE,	11.00	
516 394 randela	(light gog)	
174 598 mas,	N N	Static Water Level for non-flowing
398 1.40 hard gr	ay chali	
40 642 rock 1		Shut-in Pressure for Flowing Well. 36
642 648 hard gr	ey whole	Pumping Water Level
148 649 JOCK 1		g at gal. per minute.
199 735 hard she	le brouge o groy	Discharge in gal. per min. of flowing
735 731 wah	layer	15 galla
736 884 hert any	chale	How Tested
774 779 mech		Length of Test
179 914 way chale	· · · · · · · · · · · · · · · · · · ·	Remarks: (Gravel packing, comenting, p
114 9,90 och	26 4 Mesec 7 T/9 R59	ers, type of shutoff
na 1972 hard gray	Indicate location of well an	
184 rock	place of use, if possible. Eac small square represents 4	
TA VI	acres.	
179 1040 1000 50	f -du-	
1040 1083 Hand 14	-> 6 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0	(Continue on reverse si
23 1107 sancieta	number of acres and lo	, industrial, drainage or other. Explain, s ecation or other data (i.e.: Lot, Block and A
107 1110 Ravel cha	u tion).	. ,
- 1		
Show exact depth	of bottom.	
110		
		no 92

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Driller's Signature.

STATE OF MONTANA Sa.
County of Richland, Sa.
Filed this 10 day of the State A D 1968 at Hills County Recorder.

in Bin	Approved Stock Form—State Publishing Co., Helena, Montane—42234 T. J. 9. N. R. 5. 9. E.
e No	County BICH LAND
	STATE OF MONTANA DETRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER JAN 10 1964
Declaration (Under the	of Vested Groundwater Rights Chapter 237, Montana Session Laws, 1961)
DEANE JOUNGS (Name of Appropriate) County of RICHLAND	(M/ST, of SKAAR BT S/DNE) (Address) (Town) State of MONTANA ding to the Montana laws in effect prior to January 1, 1962, as follow
have appropriated groundwater accor	ding to the Montana laws in effect prior to January 1, 1962, as follow
** 1. ** ** ** ** ** ** ** ** ** ** ** ** **	2. The beneficial use on which the claim is based
	3. Date or approximate date of earliest beneficial use; and how concus the use has been
	4. The amount of groundwater claimed (in miner's inches or gaper minute)
S - ION - FOE	5. If used for irrigation, give the acreage and description of the l to which water has been applied and name of the owner the NOT RPPLICABLE
E.1/ Sec. Z. T/INR.575 dicate point of appropriation d place of use, if possible. Each all square represents 10 acres.	6. The means of withdrawing such water from the ground and the
	tion of each well or other means of withdrawal.
drawal of groundwater 184	mpletion of the construction of the well, wells, or other works for

10. The estimated amount of groundwater withdrawn each year 250,000

11. The log of formations encountered in the drilling of each well if available NOT AVAILABLE

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner Dean C. Youngsund

Date 12/28/1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

STATE OF MONTANA Ses.
County of Richland,
Filed this De County O'clock, T. M.
County Recorder

She Salary Recorder

She Salary Recorder

-4* -7*

•	19N R 59E
	Sounty Acche Colad
MONTANA BUREAU OF MINES AND	GEOLOGY
STATE ENGINEER Butte, Montana	
WATER WELL LOG	
Owner Colors Tell Jakes	Address Skas Rto Siding Wood
Driller Land Falling	Address July mont
Date Started 16-6-5-8	Date Completed 10-12-58
Location: Sec. / O. T. /9 R 5 7 y	4 sec Δ Σ [*]
Type of well (Dug, driven, bored, or drilled)	A. Co. Jones (Chifre drill, rotary, other)
Water use: Domestic Municipal Stock	Irrigation
Casing: ft. to de ft. Type Callege La	& Size 14."
Casing:ft. toft. Type	Size
Casing:ft. toft. Type	Size
Perforated or Screened: Ft	to 1t
Type of screen or perforations	
Static Water level, for non-flowing well: 19	feet,
Shut-in pressure, for flowing well:lb./sq. in. on:	(date)
Pumping water level 2 2 feet at 5	
How tested: Y' Lini his	·
Length of test / the	
Remarks: (Gravel packing, cementing, packers, type of shut-off, depth	of shut-off)
Stavel groked	

(over)

Log of Well

Mark Control		Log of Well	7.5				
Depti	ı, feet						
From	То	Description of Material Drilled					
0	/	Surface soil					
/	18	Brown Sandy Clari					
18	24	Brown Sondy Clay Coal - ("Water vien)					
24	76	Blue clay					
1 44.1		- X					
		6 111					
	<u> </u>	6.4					
		2 Sala Maria					
		Received to the second to the					
		STATE (F. County of Fibral this					
		S					
			1				
·							
	<u> </u>						
	1	}					
~~~~	;						
	<u>.</u>						
	<u>:</u> 						
	!						

County Richleson CE VE

# MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana

STATE ENGINEER

## WATER WELL LOG

_							
<u> </u>					A A A T D 2	Sidney, Mo	ontana
	Owner. Fra	nk Balducks					
					Address	rotters,	N. Dak.
X	E Driller Fr	ancia boyer		······································	11441000		
		July 7, 19	<b>61</b>		Date Comp	letedJuly	10, 1901
	Date Started.				m	1 L	ised
	Location: Sec	, 12 _{T.}	19	R 54 1/4 3	EAST.		
_!	Location. Set	***************************************					
<b>.</b>	drilled		Equip	nent used	Rotary	drill, rotary, oth	er)
ype of well	(Dug, driven, bor	ed, or drilled)			(Citatio		
				Stock	X	Irrigation	
Water use: Domestic	لا	Municipal	ب	5,002			
			П	Other:			
Industria		Drainage	<u></u>				
Casing: 0	ft to 197	ft.	Type Lir	e Pipe	Size4	Tiber 77 7	
					Size		,
Jasing:	ft. to	ft.					
			Type		Size	, , , , , , , , , , , , , , , , ,	
Casing:	It. to					to ft	
Casing: Perforated or Screen	ed: Ft. 171-6	to ft	197	Ft		W 16	
Letiorance or	m	enh elote 1	inch x 6	inch			
Perforated or Screen Type of screen or perf	orations10	ren 510552					fee
Static Water level, for	r non-flowing w	ell: 171 ft	. down				
Static Water level, 10.				lb /on in on		,	
Shut-in pressure, for	flowing well:			ib./ sq. iii. oii		(date)	
4.4		fe		5	gs	al. per min	
Pumping water level	100	1e	et at			· -	
How tested: Pump							***************************************
Length of test5	hours			**************			
Remarks: (Gravel )		alrana	tune of si	nut-off, depth	of shut-of	f)	
Remarks: (Gravel )	packing, cemen	ting, packers	, 0,00	,			
					*****************	***************************************	
	***************************************						
***************************************							
					•••••		
						•••••	
*	***************************************		(over	١			
<b>⊚ ←</b>			tako)	,			

Log of Well

Depth	, feet	Description of Material Drilled
From	То	AT COVER PER VICE AND A MANAGEMENT AND A
þ	10	Topsoia and yellow clay
10	26	Yellow clay and fine scorio
26	37	Gray soft shale
367	143	Yell w clay
143	148	Gray shale
48	52	Soft gray rock
52	73	Gray shale
73	75	Coal
75	176	Gray shale
176	197	Water strata layers soft sandstone and gray shale
	İ	
		P I w
<del></del>		Hiled th
		S DY W S E
		1 S 1 3 4 3
		To the second se
		Carlo D
		6
		*

		American Stock Form St	ote Dublishine Co. H	slena Meridia 41921 es 203
T 1		Approved Stock Form-Sta	19 /	Biland
File No.			County	ichland
DUPLICATE	Administr	TATE OF MONTANA ATOR OF GROUNDWATER E OF STATE ENGINEER	CODE ()	:88° 1 0 1964
	eclaration of	Vested Groundwa	iter Right	<b>5</b>
		er 237, Montana Session Laws	, 1961)	
	<del></del>	Skaar	Poute	Sidney
Trank Name		of Skaar State of	tana	(Town)
County of have appropriated gr	oundwater according	to the Montana laws in effect	t prior to Janu	ary 1, 1962, as follows:
N .	2	The beneficialnese on which	the claim is bas	d for
<b>X</b>	3	Date or approximate date of	f carliest benefi	cial use; and how continu
W	E	ous the use has been	July 19	61
		. The amount of groundwate		
		per minute) about		
	5	i. If used for irrigation, give to which water has been	the screage all	d description of the land
	9 R 59			
Indicate point of app and place of use, if poss small square represents	ropriation ible. Each	5. The means of withdrawing	such water from	n the ground and the loca
amair aquare represent		tion each well or other m	eans of withdys	wal
7. The date of common drawal of groundware.	nencement and comple	tion of the construction of the	e well, wells,	or other works for with
8. The depth of water	table (	about 8ft.		
· · · · · · · · · · · · · · · · · · ·		size and depth of each well	4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	specifications of any other
works for the withd	rewal of greatdwater	est hole degger		
6	freh hole	Casing Let dep		
	about 20	· · · · · · · · · · · · · · · · · · ·		
10. The estimated amount	unt of groundwater w	ithdrawn each year a	trut 1	00 100 gain
,	21	drilling of each well if availa		
Landi	grantino	inf		
reference to book a	nd page of any county	ure as may be useful in carry		olicy of this act, includir
				A Balduck
		Signature of Ow	mer	A Briducks
			Date	~ ~ , , , , <b>, , ,</b>

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

286212

STATE OF MONTANA, County of Richland, Filed Als. 30

3 GW 2 Revised 1969

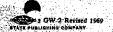
RECEIVED Indicate the character, color, thick-

#### DRILLER'S LOG

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

# NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

MONTANA WATER RESO OTICE OF COMPLETION ( APPROPRIATION BY M Developed after January	OF GROUNDWATER EANS OF WELL ary 1, 1962		depth height	shale, sandstone, etc. Show at which water is found and to which water rises in well.
er Chapter 237 Montana Session	Laws, 1961, as amended)		Ground	(Elev. above sea level)
L L. Jailler	and three copies to be filed	From (Feet)	To (Feet)	
the well is located, last copy to	be retained by driller.			Francis of Sandakan
answer all questions. If not app	licable, so state, otherwise the	<u>                                     </u>	£5°	
may be returned.			16	December 2 Street
Calbuck Bare				
	For Administrator's Use	1//	/	
ss Abana Bente	File # 327067 May 14, 1973@ 10,40	7	1:9	The state of the s
	An	1:0	13-3	
my Montand	Helen Duckey	7		
well started 4-1-1173	GW 1 Costerniyer	737	7)36	Section Activities
completed 4:17-1773	Filed - See 142.00	777	202	Same of the same of
of well	(Dug, driven, bored or drilled)		7 3 8	
ment used		75.	133	and the day
$\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}}}}}}}}}}$	(Churn drill, rotary or other)			
r Use: Domestic 🗌 Municipal	☐ Stock ☑ Irrigation ☐	1. 12	3/0	The state of the s
Industrial Drainage	Other 🗆 * Garden/Lawn 🔲			
indosinoi 🗀				
cribe	at an Evoluin			
and Addition)	al, drainage or other. Explain, ion or other data (i.e. Lot, Block			
and Addition)	PERFORATIONS  Kind From To	n)		
and Addition)	PERFORATIONS  Kind From To			
and Addition)	FOO, COO SOLOGICAL STATE OF ST			
and Addition)	Static water level	ft.*		
and Addition)	Static water level 2.25  Static water level 2.25  Pumping water level 2.25  Quality of the control of the contr	ft.*		
and Addition)	Static water level Pumping water level at	ft.*		
and Addition)	Static water level	ft.*		
and Addition)	Static water level	ft.*		
and Addition)	Static water level	ft.*ft.* inute, nping		
and Addition)	Static water level Pumping water level at	ft.*ft.* inute, nping		
and Addition)	Static water level Pumping water level at	ft.*ft.* inute, inpingHP		
and Addition)	Static water level Pumping water level at	ft.*ft.* inute, inpingHP		
and Addition)	Static water level Pumping water level at	ft.*ft.* inute, inpingHP		
state number of acres and local and Addition).  MATED ANNUAL WITHDRAWAL  Tree of Size and Press Weight (Peet)  N  N  N  N  N  N  N  N  N  N  N  N  N	Static water level  Pumping water level  at gallons per mi measured minutes after pun began.  *Measured from ground level. Well developed by for hours. Power Pump. Remarks: (Gravel packing, ceme packers, type of shutoff)	ft.*  ft.* inute, inping  HP		
and Addition).  MATED ANNUAL WITHDRAWAL  Tree of Size and Weight (Feet) (Feet)  Y J D O O O O O O O O O O O O O O O O O O	Static water level  Pumping water level  at	ft.*  ft.* inute, inping  HP		
state number of acres and local and Addition).  MATED ANNUAL WITHDRAWAL  Tree of Size and Press Weight (Peet)  N  N  N  N  N  N  N  N  N  N  N  N  N	Static water level  Pumping water level  Pumping water level  at gallons per mi measured minutes after pun began.  *Measured from ground level.  Well developed by for hours.  Power Pump.  Remarks: (Gravel packing, ceme packers, type of shutoff)	ft.*  ft.* inute, inping  HP		



RECEIVED

Indicate the character, color, thick-

# STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE/TAND DEPARTMENT OF MATURISM Such as soil, clay, sand, MONTANA WATER RESOURCES BOARD A DURINGER AND COLORS OF MATURISM Such as soil, clay, sand, gravel, shale, sandstone, etc. Show APPROPRIATION BY MEANS OF WELL APPROPRIATION BY MEANS

Developed after January 1, 1962

			Session					

his form to be prepared by driller, and three copies to be filed by the county filer and Recorder in the county in			To (Foot)		
vhich the well is located, last copy to lease answer all questions. If not apport orm may be returned.	be retained by driller.	-6-	£5"	Anox as in the	<u> </u>
		J. 45	70		
Owner Paldwick Bart	For Administrator's Use	90	91		
Address Sheen, Anti	File # 327067 May 14, 1973 @ 1040	9.7	159	Bankon Lyan	7eock
Salony, Mortana	An.	154	37	- <u></u>	
Date well started 4-13-1923	GW 1 Clerk				
completed <u>4-/7-/179</u>	By G Closterneyer	457	) \$ to		
		230	<i>6.12</i>		Market Mark
ype of well	Dug, driven, bored or drilled)	737	250		2016/3/10
quipment used	(Churn dill, rotary or other)	232	15.		
Vater Use: Domestic 🔲 : Municipal			770		TOTO GAR
Industrial 🖂 Drainage 🖸	Other 🗔* Garden/Lawn 🗔		3434		epar, la c
Describe		- 2.9.7.5	SCA-07		
ISE: If used for Irrigation, industrial,	drainage or other Evolain				11120
state number of acres and locatio	n or other data (i.e. Lot, Block	- A.U.	, m		
and Addition).			CALCAN Section		
STIMATED ANNUAL WITHDRAWAL	500,000 50				
Size of Size and From To Drilled Weight (Feet) (Feet)			155 A		
6 470 0 763	Kind Prom To Siza (Feet) (Feet)	3.9			
9.5/4	man		25.1		
7.3.0					
			2		
N .					
St.	atic water level 225 ft.	*			Take 1
	umping water levelft.				72
	easuredminutes after pumpin	9			
•	Measured from ground level.				
	ell developed by 2	*			$\equiv$
P P	ower, Lucia Pump. 4 H		TANK A		
р	emarks: (Gravel packing, comenting sckers, type of shutoff)	<u> </u>			二 二
시간 사람들은 경기를 보고 있는 것이 없다.	Quel Band Se norm 269				
NE y NW vs sec 13	7= 210				
S W NDICATE LOCATION OF WELL AND	DIACE OF USE IS DOSSIDLE			record and the second of the s	
ACH SMALL SQUARE REPRESENTS 40					
Aller Standard Toward I Po	me III Misera			سائٹ کے کہ کہ دور میں جو سائٹ کے بیاد	

327067

STATE OF MONTANA, Ss. County of Richland,

Filed this day of Filed this day of A. D. 19 73 sit 20: 70 o'clock, B. M. Helin Scutter County Recorder Control Dispussion See 1 2.00

<u></u>	
G1	Approved Stock Form—State Publishing Co., Helena, Montana—3234  T. R.  County Published  MONTANA
File No	T. R. J.
DUPLICATE	County
	COODENWATER CODE
	ATE ENGINEER
D. J. 11	La La Bellata Liva
	d Groundwater Rights
	ntana Session Laws, 1961)
, Frank Balducke	(Address) (Town)  State of Montana (Town)  State of Montana (Town)
(Name of Appropriator)	(Address) (Town)
County of have appropriated groundwater according to the Mo	State of
2. The ben	eficial use on which the claim is based for
3. Date or	approximate date of earliest heneficial use, and how continuuse has been him the state of the daily use since
ous the	n daily use since
	ount of groundwater claimed (in miner's inches or gallons
per mint	about 5 or 6 gallone per minute
	for irrigation, give the acreage and description of the lands
s to which	water has been applied and name of the owner thereof
14 Sec. T B 59	
Indicate point of appropriation	
	ans of withdrawing such water from the ground and the loca-
tion of	sch well or other means of withdrawal
7. The date of commencement and completion of the	construction of the well, wells or other works for with-
drawal of groundwater	engales mar. 4, 14 30
8. The depth of water table 13 ft	
<ol> <li>So far as it may be available, the type, size and works for the withdrawal of groundwater.</li> </ol>	depth of each well or the general specifications of any other
Dulledwell = 24mch	1. 50 ft dup - cerent curling
10. The estimated amount of groundwater withdrawn e	ach year 200,000 galirus
11. The log of formations encountered in the drilling of	each well if available
granda and and	
· · · · · · · · · · · · · · · · · · ·	
12. Such other information of a similar nature as may	be useful in earrying out the policy of this act, including
	Signature of Owner Trank Balduse by my mosternak Balduse
	by moderage saland

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

286211

of MONTANA. } ss.

3887	

File No ..

DUPLICATE

County .....

#### STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation

Without Well

STATE ENGINEER

(Under Chapter 237 Montana Session Laws, 1961)

그리 시간 하다 있는 이 얼마는 그 없다.	Date of Appropriation of Groundwater 1943
	owner Karney J. Redmondaress Sidney, Montona
	Contractor (if any) .LINKNOWN
	Address of Contractor Linknown
	Date Started AA Kuuwa Date Completed Linkhowa
N	Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to
X	water when applicable Water Comes to Surface
	under natural pressure and flows
	down to Fill a tank
	E
	Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent
S	estimate approximate lengths of periods of use rate of
NE 1/4 Sec /8 T /9 R 59	Clau measured as it ills the tank
Indicate point of appropriation and place of use, if possible.	for stock nater - used all year
	as stock nater supply-
	3 qallons per minute
	Signature of Owner Karney for Redman
	Data Dec 96, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

.w : Filo No.	Approved Stock Form.—State Publishing Co	2., Helena, Mantana 42262
DUPLICATE		194 57 E
	Coun STATE OF MONTANA	b-Richland
	ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER	DECEIVED
Notice of	Completion of Groundwater App Without Well	ropriation
	(Under Chapter 237 Montana Session Laws, 1961)	STATE ENGINEER
	Date of Appropriation of Groundwater	1945
	Owner Karney J. Redme Address	Sieney Montana
	Contractor (if any) Linknown	

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is integnitient

Date Started un known Date Completed Lift Knowin

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable WOLCE. Comes to suite to the language water when applicable WOLCE.

estimate approximate lengths of periods of use rosts.

Indicate point of appropriation and place of use, if possible.

See 18 T 19 R 29

Class Managered as it fills the and place of use, if possible.

See loss on

Signature of Owner Later for

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

SIATE OF MONTANA, 3 28601/
County of Richland, 3 28601/
Filed this 26 day of April 1963

at 3.5.3 wickers M. M. County Ragardes
Liled Deputy

Liled

G)	Array a	Approved Stock Form-State Publishing	ng Co., Helena, Montana—42234
File No		T.	INR SIE
DUPLICATE	•		ounty
	ADMINISTRATOR	OF MONTANA OF GROUNDWATER CODE STATE ENGINEER	JAN 10 1964
		sted Groundwater R , Montana Session Laws, 1961)	ights and 123
1 Ray Smart		of Skaar Rte	Sidney
1 RAY MARIE	ame of Appropriator)	(Address)	(Town)

DUPLICATE	STATE OF MONTANA DMINISTRATOR OF GROUNDWATER COI OFFICE OF STATE ENGINEER	JAN 10 1964
	ion of Vested Groundwater der Chapter 237, Montana Session Laws, 196:	
1 Ray Smart	of Skear Rte	Sidney
(Name of Approp	riator) (Address)	(Town)
County of intentanta have appropriated groundwater	State of Montana according to the Montana laws in effect prior	r to January 1, 1962, as follows:
N	2. The beneficial use on which the cla	im is based Stock Water
	3. Date or approximate date of earli	est beneficial use: and how contin
w	ous the use has been use start	ed about 1907, used conti
	4. The amount of groundwater clair per minute) 5 gal. per minute	med (in miner's inches or gallor
\$	5. If used for irrigation, give the a to which water has been applied not used for irrigation	
SE 1/4 Sec. 28 T. 19 R. 59		
Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.	6. The means of withdrawing such v	vater from the ground and the loca
drawal of groundwaterNOt	d completion of the construction of the well	
9. So far as it may be available.	the type, size and depth of each well or the	general specifications of any other
	undwater deilkedwat dug by hand, h	
10. The estimated amount of groun	dwater withdrawn each year 200,000 ga	Llong
11. The log of formations encounter	ed in the drilling of each well if available"	ot available
reference to book and page of a	nilar nature as may be useful in carrying ot ny younty record none.	
		e Dec. 31, 1963
	<b></b>	
Three copies to be filed by the owner	with the County Clerk and Recorder of the c	
	with the County Clerk and Recorder of the capplicable, so state, otherwise the form will be	ounty in which the well is locate

STATE OF MONTANA
County of Richland,
Filed this S. day of

A. D. 19 (2)

at 1. 0.3 cock, A. M.

County Recognity

Filed this S. 200463

			County	Richland	
	MONTANA BI	UREAU OF MINE Butte, Montane	S AND GEOL	1 - 1 15 0	
		WATER WELL	LOG	STATE	ENGINEE
	Owner James	Carson	Ad	dress Sidmey.	Montana
		в Воусе			
X		g. 28, 1961			
	Location: Sec31		R 59 14 sec.		4
ype of well	drilled	drilled)	ment used	Churn drill, rotary	other)
Water use: Domestic		inicipal	Stock	Irrigation	on 🔲
Industrial		rainage	Other:		lbs. Per ft.
Casing: 0	ft. to 289			Size 4 Inch 17	
Casing:	ft. to			Size	
	# +0	ft. Type		. Size	
- d am Clarconi	None	to ft	Ft	to ft	
	None				
Genetic Water level. fol	non-flowing well:	55			Ie
Shut-in pressure, for	flowing well:	:	lb./sq. in. on:	(đạte)	
mlug motor level	118	feet at	8	gal. per mi	n
Bai	ier				
	iou <b>rs</b>	.,			
Length of test			us off denth of	shut-off)	
Remarks: (Gravel 1	packing, cementing,	packers, type of sh	ini-ori, depuis	m 27 //	
Remarks: (Gravel )	packing, cementing,	packers, type of sh	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	28241	
Remarks: (Gravel )	packing, cementing,	packers, type of sh	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	282 ft	

(over)

Log of Well

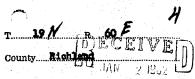
		Log of Well
Deptl	a, feet	Description of Material Drilled
From	To	Description of Material Diffied
0	17	Yellow clay & top soil
17	35	Scorio, gravel and fine sand
35	39	Gray shale
39	ħτ	Rock
41	7.24	Gray shale
124	126	Coal
126	1111	Gray shale
<b>1</b> /4/4	147	Goal.
147	205	Gray and layers black crumbly shale
205	234	Fine floaty water sand no good
234	236	Cosl
236	270	Gray shale
270	280	Fine floaty sand
270	308	Coerser sand aquier
308	360	Layers crumbly shale & water sand
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-		Principle V
		744
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GROUNDWATER INDEX

Page __/of__/

County <u>Richland</u> Twp. 1991 Rge. 606

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
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17	Burel Jae. Skaar Signald	57 Stubog	274/691	
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# MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana STATE ENGINEER

### WATER WELL LOG

Driller Francis Borne  Date Started. Nov. 3. 1961  Location: Sec. 4. T. 19 R. 60 % sec. 52 4  Date Completed. Nov. 5. 1961  Location: Sec. 4. T. 19 R. 60 % sec. 52 4  Description of the completed of the complete of		Owner Jos Bersel	Ado	iress. <b>Zidney,</b> Mont.
Location: Sec. 1. T. 19 R 60 % sec. 551  The of well		Driller Francis Boyce	Add	iress Trotters N. Dak.
pe of well		Date Started Nov 3, 1961	Dat	e Completed Mays. 5. 1961
ater use: Domestic Municipal Stock Irrigation Industrial Drainage Other:  Industrial Drainage Other:  Sing: Other Type Size Is in. 11 lbs per Assing:  It to ft Type Size  Ising: ft to ft Type Size  Ising: ft to ft Type Size  Inforated or Screened: Ft NOW to ft Type Size  Inforated or Screened: Ft NOW to ft Type Size  Inforated or Screened: Ft Size to ft Type Size  Inforated or Screened: Ft Size to ft Type Size  Inforated or Screened: Ft Size to ft Type Size  Inforated or Screened: Ft Size to ft Type Size  Inforated or Screened: Ft Size to ft Type Size  Inforated or Screened: Ft Size to ft Type Size  Inforated or Screened: Ft Size to ft Type Size  Inforated or Screened: Ft Size to ft Type Size  Inforated or Screened: Ft Size to ft Type Size  Inforated or Screened: Ft Size to ft Type Size  Inforated or Screened: Ft Size to ft Type Size  Inforated or Screened: Ft Size to ft Type Size  Inforated or Screened: Ft Size to ft Type Size  Inforated or Screened: Ft Size to ft Type Size  Inforated or Screened: Ft Size		Location: Sec. 4 T. 1	R 60 14 sec	88 }
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Industrial Drainage Other:  Sing: O ft. to 11:0 ft. Type Size is in. 11 lbs per ft.  Sing: ft. to ft. Type Size  S	pe or wear	(Dug, driven, bored, or drilled)	Ed lipment useu	(Churn drill, rotary, other)
sing:  ft. to  ft. Type  Size  Line pipe  Size  Line 11 lbs per ft.  Type  Size  Siz	ater use: Domestic	Municipal	Stock X	Irrigation
sing: ft. to ft. Type Size  sing: ft. to ft. Type Size  rforated or Screened: Ft. NOW to ft. Ft. to ft.  pe of screen or perforations.  atic Water level, for non-flowing well: lob ft. fe  nut-in pressure, for flowing well: lb/sq. in. on: (date)  maping water level l28 ft. feet at gal. per min  ow tested: Sailer  ngth of test. lb hr.  emarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)	Industrial	Drainage	Other:	
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mgth of test. 2 hr.  emarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)				(date)
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Log of Well

<u> </u>		Log of Well
Depti From	r, feet To	Description of Material Drilled
110111	10	
0	10	Topsoil & sil\$
10	٢o	Sandy silt fill
40	79	Clay
48	52	Soft rock
52	70	Firm shale or sandstone. No water
70	72	Coal
72	107	Gray shale
107	135	Soft sandstone, balled sand
135	151	Firmer sandstone, water bearing
. 3/4		
		File.
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AND	GEOLOGY	D E	EIVED
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## WATER WELL LOG

## STATE ENGINEER

CA	Address Sidney, Montens
Owner Sigvald Skear	Trotters, N. Dak
Driller Francis Boyce	Address
Date Started June 4, 1961	Date Completed
Date Started.	South Vest
Location: Sec. 17 T 19 R.	South West
	Rotary
pe of well (Dug, driven, bored, or drilled) Equipme	nt used(Churn drill, rotary, other)
그렇게 하는 하는 그들이 되는 그는 이렇게 되었다.	Stock X Irrigation
ater use: Domestic Municipal	Sweak Land State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State S
Drainage	Other:
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sing: 0 ft. to 11 Type	
ft toft. Type	
44 Trime	Size
easing:ft. toit. 1396 Perforated or Screened: Ft. 53 to ft. 71	Ft to ft
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type or screen of performance of the down static Water level, for non-flowing well: 50 ft. down	feel
itatic Water level, for non-22000	/sg, in, on:
Shut-in pressure, for flowing well:	8 get per min
Pumping water level	8 gal. per min
testar.	
How tested:	
How tested:  Length of test. 24 hours	
Remarks: (Gravel packing, cementing, packers, type of shu	t-off, depth of shut-off)
Remarks: (Graves passes)	
(OAGL)	

Depth	ı, feet	
From	То	Description of Material Drilled
0	10	Topsoil & yellow clay
10	30	Yellow clay
30	33	Fine scorio & clay
33	52	Gray shale
52	55	Coal
55	72	Gray water sand
		SI
		S.I. Miller Off No. 17
		Co White 3
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## STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE MONTANA WATER RESOURCES BOARD

## NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the **owner** with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller.

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Please ans form may	wer all que be returned	stions. If	not appli	cable, so sta	te, otherwis	e the	0	70	op so
		11. 71					70	75	Cosl
Owner!	Joe Berze	1		For Admi	nistrator's U	se	75	112	
Address	Sidney, M	bnt.		File 3			-45	112-	gray
				June	21 1971	'' ·	112	115	cogl
					1:45 P	22	115	11.1	pray
Date well	started6	-9-1971		GW 1			121	1115	coal
CON	npleted 6	11-1971							0011
		4					1/15	1611	hard
Type of w	ell drill	ed	(D	ug, driven, bored	or drilled)		161	185	prav
Equipment	used rot	ary							
Mata = 11 =	D			Churn drill, rotar				<del> </del>	
water Use	: Domestic	∐ Mu	inicipal [	] Stock	] Irrigatio	on 🔲			
Ind	lustrial 🔲	Drainage	: D 0	ther 🗆*	Garden/Law	/n □		<b> </b> -	<del> </del> -
*Describe		2 11		Ī					
		ration in	dustria)	drainage or	other E	nu nlain			
state	number of	acres and	location	or other da	ta (i.e. Lot,	Block		<del> </del>	
and	Addition)								L
ESTIMATED	ANNUAL	WITHDRA	WAL /	60,000	}				
				60,000	ERFORATION				
Size of Drilled Hole	ANNUAL	WITHDRA\ From (Feet)	WAL J. (Feel)	60,000	<del></del>	5 To (Feet)			
ESTIMATED	Size and Weight of Casing	Pross (Feet)	WAL J	60,000	ERFORATION				
Size of Drilled Role	Size and Weight of Casing	WITHDRA\ From (Feet)	WAL J. (Feel)	60,000	ERFORATION				
Size of Drilled Role	Size and Weight of Casing	Pross (Feet)	WAL J	60,000	ERFORATION				
Size of Drilled Role	Size and Weight of Casing	Pross (Feet)	WAL J	60,000	ERFORATION				
Size of Drilled Role	Size and Weight of Casing	Pross (Feet)	WAL J	60,000	ERFORATION				
Size of Drilled Role	Size and Weight of Casing	Pross (Feet)	WAL / 10 (Feet) 185	Kina Siza	PERFORATION( Prom (Fest)	To (Feet)			
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State of Drillog Roles 511	Size and weight of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding of Coding	Prom (Pet)  O  O	Sta Pur at me bec *M We for Pov Rer	Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size  Kind Size	Prome (Feet)  Prome (Feet)  100  level 1.20	ft.  ft.  ft.  ft.  fr.  ft.  fr.  ft.  fr.  ft.  ft			

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.

LICENSE NO ..

EACH SMALL SQUARE REPRESENTS 40 ACR

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

From (Feet)	To (Feet)	(Elev. above sea level) 2.34
(Feet)	(Feet)	
2	70	op soil and brown sendy
<del></del>		op sour and order source
70	75	coal
75	112	gray clay
-43		Gray arry
112	115	coal
15	41.9	gray shale
	L	L
1/11	1115	conl
115	16lı	hard gray shale
	1	
61,	185	gray sandstone
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STATE OF MONTANA, SS.

County of Richland, SS.

Filed this 21 day of A.D. 19.77

at 1.45 o'clock, M.

When Lucke

County Recorder

January Recorder

Deputy

Filed 2.00

Filed